

## ABSTRACT

A crystallized bottleneck of polyester beer bottle, in which the crystallized bottleneck is no machined a screw thread and it has a crystallized length of 0.5-  
5 35mm at the bottleneck portion. To manufacture the crystallized bottleneck, an  
uncrystallized blank of the bottle is placed for 24-72 hours in air-condition  
environment and a crystallizer is preheated two hours or more before a  
crystallization. A bunker is loaded with the uncrystallized blank, which is delivered  
to a blank horse's head via a conveyor belt, then a bottleneck portion of  
10 uncrystallized bottle blank is sent into a crystallizer to heat it at high temperature  
and crystallize it via a arbor transmission chain; at the same time, the uncrystallized  
portion of the blank body is controlled, so that it is not effected by the environment  
at high temperature. The polyester bottle blank having a crystallized bottleneck  
portion is discharged through output blank horse's head and delivered to another  
15 conveyor belt to cool and shape it. The crystallized bottleneck of the polyester beer  
bottle and the manufacturing method for the same provided by the invention  
effectively enhance the heat-durability of the bottleneck of the polyester beer bottle  
and stability for maintaining the dimension of it, so that the polyester beer bottle  
exhibits to an excellent pressure-tightness effect, and it is reliable for ensuring the  
20 quality of the beer received therein.